FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
660088.446APPLICATION NO.
09/960,612

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Christen M. Anderson et al.

FILING DATE

September 20, 2001

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U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|-----------------|----------|--------------|-------|----------|-------------------------------|
| SH | AA | 4,297,280 | 10/27/81 | Hirai et al. | 260 | 245.5 | |
| SH | AB | 4,341,704 | 07/27/82 | Hirai et al. | 260 | 243.3 | |

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| | | | | | YES | NO |
| | AC | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | | |
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| SH | AD | ✓ | Baron and Thayer, "CGP37157 Modulates Mitochondrial Ca^{2+} Homeostasis in Cultured Rat Dorsal Root Ganglion Neurons," <i>Eur. J. Pharmacol.</i> 340(2-3):295-300, December 11, 1997. |
| | AE | ✓ | Baysal et al., "Regulation of the Mitochondrial $\text{Na}^+/\text{Ca}^{2+}$ Antiport by Matrix pH," <i>Arch. Biochem. Biophys.</i> 291(2):383-389, December 1991. |
| | AF | ✓ | Chiesi et al., "Stereospecific Action of Diltiazem on the Mitochondrial Na-Ca Exchange System and on Sarcolemmal Ca-Channels," <i>Biochem. Pharmacol.</i> 36(17):2735-2740, September 1, 1987. |
| | AG | ✓ | Chiesi et al., "Structural Dependency of the Inhibitory Action of Benzodiazepines and Related Compounds on the Mitochondrial $\text{Na}^+/\text{Ca}^{2+}$ Exchanger," <i>Biochem. Pharmacol.</i> 37(22):4399-4403, November 15, 1988. |
| | AH | ✓ | Cox and Matlib, "Modulation of Intramitochondrial Free Ca^{2+} Concentration by Antagonists of $\text{Na}^+/\text{Ca}^{2+}$ Exchange," <i>Trends Pharmacol. Sci.</i> 14(11):408-413, November 1993. |
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| | AJ | ✓ | Crompton and Andreeva, "On the Involvement of a Mitochondrial Pore in Reperfusion Injury," <i>Basic Res. Cardiol.</i> 88(5):513-523, 1993. |
| | AK | ✓ | Gunter and Gunter, "Transport of Calcium by Mitochondria," <i>J. Bioenerg. Biomembr.</i> 26(5):471-485, October 1994. |
| | AL | ✓ | Jung et al., "The Sodium-Calcium Antiport of Heart Mitochondria is Not Electroneutral," <i>J. Biol. Chem.</i> 270(2):672-678, January 13, 1995. |
| SH | AM | | Karadjov et al., "TPP ⁺ Inhibits Na^+ -Stimulated Ca^{2+} Efflux From Brain Mitochondria," <i>Cell Calcium</i> 7(2):115-119, April 1986. |

EXAMINER

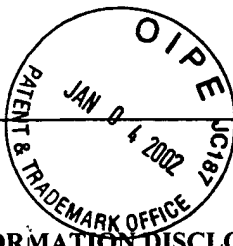
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| BB | | | |

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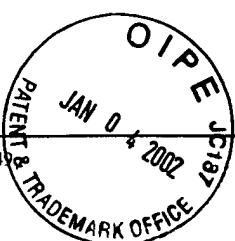
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| | BD | Li et al., "Reconstitution, Identification, Purification, and Immunological Characterization of the 110-kDa $\text{Na}^+/\text{Ca}^{2+}$ Antiporter From Beef Heart Mitochondria," <i>J. Biol. Chem.</i> 267(25): 17983-17989, September 5, 1992. |
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| | BF | Magnus et al., "Model of β -cell Mitochondrial Calcium Handling and Electrical Activity. II. Mitochondrial Variables," <i>Am. J. Physiol.</i> 274(4pt1):C1174-C1184, April 1998. |
| | BG | Matlib et al., "A Specific Inhibitory Action of Certain Benzothiazepines and Benzodiazepines on the Sodium-Calcium Exchange Process of Heart and Brain Mitochondria," <i>Eur. J. Pharmacol.</i> 89(3-4):327-328, May 6, 1983. |
| | BH | Matlib et al., "Selective Effects of Diltiazem, a Benzothiazepine Calcium Channel Blocker, and Diazepam, and other Benzodiazepines on the $\text{Na}^+/\text{Ca}^{2+}$ Exchange Carrier System of Heart and Brain Mitochondria," <i>Life Sci.</i> 32(25):2837-2842, June 20, 1983. |
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| | BJ | Newgard et al., "Metabolic Coupling Factors in Pancreatic β -cell Signal Transduction," <i>Ann. Rev. Biochem.</i> 64:689-719, 1995. |
| SH | BK | Rizzuto et al., "Pathways for Ca^{2+} Efflux in Heart and Liver Mitochondria," <i>Biochem. J.</i> 246(2):271-277, September 1, 1987. |

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FORM PTO-144
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| | CD | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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| SW | CE | ✓ | Rutter et al., "Regulation of NAD ⁺ -Linked Isocitrate Dehydrogenase and 2-Oxoglutarate Dehydrogenase by Ca ²⁺ Ions Within Toluene-Permeabilized Rat Heart Mitochondria. Interactions With Regulation by Adenine Nucleotides and NADH/NAD ⁺ Ratios," <i>Biochem. J.</i> 252(1):181-189, May 15, 1988. |
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| | CH | ✓ | Svichar et al., "Mitochondrial Participation in Modulation of Calcium Transients in DRG Neurons," <i>NeuroReport</i> 10(6):1257-1261, April 26, 1999. |
| | CI | ✓ | Vaghy et al., "Selective Inhibition of Na ⁺ -induced Ca ²⁺ Release From Heart Mitochondria by Diltiazem and Certain Other Ca ²⁺ Antagonist Drugs," <i>J. Biol. Chem.</i> 257(11):6000-6002, June 10, 1982. |
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